REMARKS

Claims 1-12 were pending in the present application. By this Amendment, Applicant has amended claim 1 and canceled claims 10 and 12. The cancellation of subject matter is without prejudice to Applicant's right to present such subject matter in a future continuing application. The present amendment does not introduce any new matter and thus its entry is respectfully requested. Upon entry of the present amendment, claims 1-9, and 11, will be pending and under examination.

August 21, 2008 Office Action

Species Election Requirement Withdrawn

The Office Action indicates that the Examiner found Applicant's previously elected species free of the art, expanded the search to include claims 1-12 in their entirety, and withdrew the election requirement.

In response, Applicant acknowledges and appreciates the withdrawal of the species election requirement.

Information Disclosure Statement

The Office Action indicated that certain documents listed on Applicant's Information

Disclosure Statement filed April 1, 2005 were not available to the Examiner and thus have not
been considered. The Office Action stated that Applicant may submit the missing references

with the response to the Office Action and that no fee for such submission will be required.

In response, Applicants attach hereto copies of the four references the Examiner has indicated were missing. Applicants respectfully request that these references now be considered.

Claim Rejection Under 35 U.S.C. §112, first paragraph

Claims 10 and 12 were rejected under 35 U.S.C. §112, first paragraph, as allegedly failing to comply with the enablement requirement. The Examiner's full rationale for the rejection is set forth at pages 3-7 of the Office Action.

In response, without conceding the correctness of the Examiner's position, but to expedite allowance of the application, Applicant has canceled claims 10 and 12 without prejudice, rendering the rejection moot. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection of claims 10 and 12 under 35 U.S.C. §112, first paragraph.

Claim Rejections Under 35 U.S.C. §112, second paragraph, and 35 U.S.C. §101

Claims 10 and 12 were rejected under 35 U.S.C. §112, second paragraph, as allegedly being indefinite, and under 35 U.S.C. §101, as allegedly failing to set forth proper process steps.

The Examiner's full rationales for the rejections are set forth at pages 7-8 of the Office Action.

In response, without conceding the correctness of the Examiner's positions, but to expedite allowance of the application, Applicant has canceled claims 10 and 12 without prejudice, rendering the rejections moot. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejections of claims 10 and 12 under 35 U.S.C. §112, second paragraph, and 35 U.S.C. §101.

Examiner's Rejections Under 35 U.S.C. §102(b)

Claims 1 and 7-12 were rejected under 35 U.S.C. $\S102(b)$ as allegedly anticipated by Ashley (U.S. Pat. No. 5,855,910). According to the Examiner, "Ashley teaches Applicants' compound of formula I where in R^1 =diacylglycerol R^2 =choline . . . and R^3 = C_1 - C_{24} straight chain alkyl or alkenyl."

The Examiner further asserted that "Ashley teaches that these phospholipids can be obtained from the parent phosphoglyceride." The Examiner also stated that Ashley teaches a class of cationic phospholipids, and the synthesis thereof, that are capable of generating liposomes. According to the Examiner, the liposomes are taught as methods of treatment of diseases or ailments amenable to treatment with nucleic acids or oligonucleotides.

The Examiner also rejected claims 1 and 4 under 35 U.S.C. $\S 102(b)$ as allegedly anticipated by Bruzik, et al. According to the Examiner, Bruzik teaches the synthesis of glycerophospholipids wherein \mathbb{R}^1 =diacylglycerol, \mathbb{R}^2 =glycerol, and \mathbb{R}^3 = Me.

In response, without conceding the correctness of the Examiner's positions, but to expedite allowance of the present application, Applicant has amended claim 1 to recite "... and each of R² and R³ is a residue independently selected from ethanolamine, N-methylethanolamine, propanolamine, choline, glycerol, oligoglycerols, glycoglycerols or serine..." The claims, as amended, are not anticipated by either reference cited by the Examiner and

U.S. Application No. 10/529,889 Reply to August 21, 2008 Office Action Response dated February 23, 2009

thus, Applicant respectfully requests reconsideration and withdrawal of the rejections under 35

U.S.C. §102(b).

Allowable Subject Matter

The Examiner indicated that claims 2, 3, 5, and 6 were objected to as being dependent on

a rejected base claim, but would be allowable if rewritten in independent form.

In response, Applicant acknowledges and appreciates the indication of allowable subject

matter.

In light of the amendments and remarks presented herein, Applicant believes all of the

rejections set forth in the August 21, 2008 Office Action have been fully overcome and the

claims are in condition for allowance. The Examiner is invited to telephone the undersigned if

it is deemed to expedite such allowance.

Respectfully submitted,

February 23, 2009

Patrick T. Skacel Reg. No. 47,948

Attorney for Applicant

Rothwell, Figg, Ernst & Manbeck, p.c. 1425 K Street, N.W., Suite 800

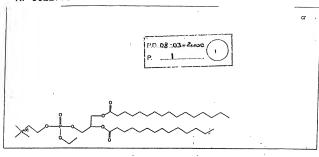
Washington, D.C. 20005

Telephone No.: (202) 783-6040 Facsimile No.: (202) 783-6031

Attachments: Copies of four previously cited references

1582605 1.WPD

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Substance

Beilstein Registry Number 8384216

Chemical Name ethyl palmityl myristyl phosphatidyl choline

EPMPC
Autoname {2-[ethoxy-(3-hexadecanoyloxy-2-tetradecanoyloxy-propoxy)-

phosphoryloxy]-ethyl}-trimethyl-ammonium; chloride
Linear Structure Formula

C40Ha1NOaP(+)*C1(1-)

Linear Structure Formula C40Ha1NOaP(10)*CI(10)

Molecular Formula C40Ha1NOaP*Cl

Molecular Weight 735.06, 35.45 Fragment BRN 8381555, 3587171

Lawson Number 3122, 2817, 1247, 1241, 636, 298

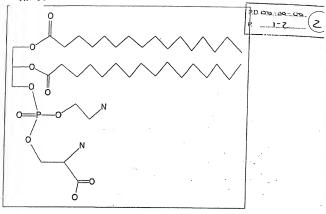
 Compound Type
 acyclic

 Constitution ID
 7118948

 Tautomer ID
 7903849

 Entry Date
 2000/03/08

 Update Date
 2000/03/08



Substance.

Autoname

Molecular Formula

Beilstein Registry Number 6788943

Chemical Name hexadecanoic acid 2-[(2-amino-2-carboxy-ethoxy)-(2-amino-ethoxy)-

phosphoryloxyl-1-hexadecanovloxymethyl-ethyl ester

hexadecanoic acid 2-[(2-amino-2-carboxy-ethoxy)-(2-amino-ethoxy)-

phosphoryloxy]-1-hexadecanoyloxymethyl-ethyl ester

C40H79N2O10P

779.05 Molecular Weight

Lawson Number 3549, 3122, 1241, 636

Compound Type acvelie

Beilstein Reference 5-04 Entry Date 1994/11/08

Update Date 1994/12/21

Compound Disposition 4084653 Alternate BRN

Reaction

Reaction ID 968101 Reactant BRN

1523304 hexadecanoic acid 2-{(2-benzyloxycarbonyl-2-

benzyloxycarbonylamino-ethoxy)-[2-(1,3-dioxo-1,3-dihydro-isoindol-2-

yl)-ethoxy]-phosphoryloxy}-1-hexadecanoyloxymethyl-ethyl ester 6788943 hexadecanoic acid 2-[(2-amino-2-carboxy-ethoxy)-(2-amino-Product BRN

ethoxy)-phosphoryloxy]-1-hexadecanoyloxymethyl-ethyl ester

No. of Reaction Details

Reaction Classification Preparation

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SNSDOCID: «XP.

Other Conditions		(i) N2H4*H2O, (ii) H2, Pd-C	
Note 1	Multistep	Multistep reaction	
Ref. 1	276200; Journal; Shvets, V.I. et al.; JOCYA9; J.Org.Chem.USSR (Engl.Transl.); F 1969; 1978-1983; ZORKAE; Zh.Org.Khim.; RU; 5; 11; 1969; 2033-2039;		

Infrared Spectra

Description	Bands
	<u>276200;</u> Journal; Shvets, V.I. et al.; JOCYA9; J.Org.Chem.USSR (Engl.Transl.); EN; 5; 1969; 1978-1983; ZORKAE; Zh.Org.Khim.; RU; 5; 11; 1969; 2033-2039;

Substance

47. T. 1

Beilstein Registry Number 7400057

Chemical Name 1,2-Dilaurylphosphatidylcholine methyl ester

Autoname {2-[(2,3-bis-dodecanoyloxy-propoxy)-methoxy-phosphoryloxy]-ethyl}-

trimethyl-ammonium

Linear Structure Formula C₃₃H₆₇NO₈P⁽¹⁺⁾
Molecular Formula C₃₃H₆₇NO₈P

Molecular Weight 636.87 Lawson Number 3122, 2817, 1237, 636, 289

Compound Type acyclic
Constitution ID 6396749

Tautomer ID 7081128
Beilstein Reference 6-04

Entry Date 1996/04/26 Update Date 1997/02/03

Reaction

Reaction ID 4333536

Reactant BRN 102415 diazomethane 4168394 1,2-Dimyristoylglycerylphosphorylcholin

Product BRN 7400057 {2-[(2,3-bis-dodecanoyloxy-propoxy)-methoxy-phosphoryloxy]-

ethyl}-trimethyl-ammonium

No. of Reaction Details Reaction Classification

Reaction Classification Preparation Solvent diethyl ether

Time 5 min

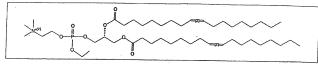
Other Conditions Ambient temperature

Ref. 1 6002834; Journal; Harvey, D. J.; JMSPFJ; J.Mass.Spectrom.; EN; 30; 9; 1995; 1333-

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Mass Spectrum

Description	spectrum
Note 1	laser desorption
Ref. 1	6002834; Journal; Harvey, D. J.; JMSPFJ; J.Mass.Spectrom.; EN; 30; 9; 1995; 1333-1346;



XP-002277997

Substance

Beilstein Registry Number 8468920

Chemical Name 1,2-dioleoyl-sn-glycero-3-ethylphosphocholine

Autoname {2-[(2,3-bis-octadec-9-enoyloxy-propoxy)-ethoxy-phosphoryloxy]-ethyl}-

trimethyl-ammonium

Linear Structure Formula C₄₆H₈₉NO₈P⁽¹⁺⁾
Molecular Formula C₄₆H₈₉NO₈P
Molecular Weight 815.18

Molecular Weight 815.18 Lawson Number 3122, 2817, 1371, 636, 298

Structure Keyword Stereo compound

Compound Type acyclic
Entry Date 2002/07/19
Update Date 2002/07/19

Pharmacological Data

Effect drug interaction

Species or Test-System COS-1 cells
Concentration 35 mmol/1

Kind of Dosing title comp.-containing gene-delivery system (carrier) prepared as emulsion

(E) or liposome (L)

Method cells transfected with title comp.-containing carrier-DNA complex

without/with fetal bovine serum (FBS) (DNA: Escherichia coli lacZ <β-galactosidase, GAL> gene) in serum-free DMEM (1 h); GAL activity

measured using photometric assay

Further Details title comp. effect on transfection activity (TA) studied

Results TA of DNA increased; without FBS: TA(L)>TA(E); with FBS: TA(E)>

TA(L) (diagram)

Ref. 1 6329882; Journal; Kim, Tae Woo; Chung, Hesson; Kwon, Ick Chan; Sung, Ha Chin; Jeong, Seo Young; PHREEB; Pharm.Res.; EN; 18; 1; 2001; 54 - 60;